

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 5 1. (Currently amended): A composition comprising:
- a) an analog probe; and
 - b) a first recombinase coated single stranded nucleic acid probe, wherein said analog probe has not been treated to coat it with recombinase.
- 10 2. (Currently amended): A composition according to claim 1 further comprising a second recombinase coated single stranded nucleic acid probe which is substantially complementary to said first recombinase coated single stranded nucleic acid probe.
3. (Previously presented): A composition according to claim 1 wherein said analog probe comprises peptide nucleic acid.
- 15 4. (Previously presented): A composition according to claim 1 wherein said analog probe is a fusion sequence comprising nucleoside analogs and naturally occurring nucleosides.
5. (Original): A composition according to claim 4 wherein said nucleoside analog comprises at least one peptide nucleoside.
- 20 6. (Previously presented): A composition according to claim 1 wherein said first single stranded nucleic acid probe is DNA.
7. (Previously presented): A composition according to claim 1 wherein said recombinase is a species of a prokaryotic recombinase.
8. (Original): A composition according to claim 7 wherein said prokaryotic recombinase is a recA recombinase.

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Claims 9-35 (cancelled)

36. (Previously presented): A composition according to claim 2 wherein said analog probe comprises peptide nucleic acid.

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37. (Previously presented): A composition according to claim 2 wherein said analog probe is a fusion sequence comprising nucleoside analogs and naturally occurring nucleosides.

5 38. (Previously presented): A composition according to claim 37 wherein said nucleoside analog comprises at least one peptide nucleoside.

39. (Previously presented): A composition according to claim 2 wherein said first single stranded nucleic acid probe is DNA.

40. (Previously presented): A composition according to claim 2 wherein said recombinase is a species of a prokaryotic recombinase.

10 41. (Previously presented): A composition according to claim 40 wherein said prokaryotic recombinase is a recA recombinase.

Claims 42-44 (cancelled)